

[PARALLEL-COUPLED-RESONATOR FILTER WITH OPEN-AND-SHORT END]

Abstract

The parallel-coupled-resonator coupled line filter with open-and-short end, comprises an input port for receiving an input signal; a bent first resonator and a bent third resonator where their both ends are open circuited; a second resonator whose both ends are shorted to ground; and an output port for outputting signal. Wherein, designing cross coupling between the third resonator and the first resonator to obtain a steep frequency response and reduce the interference of the image signal.